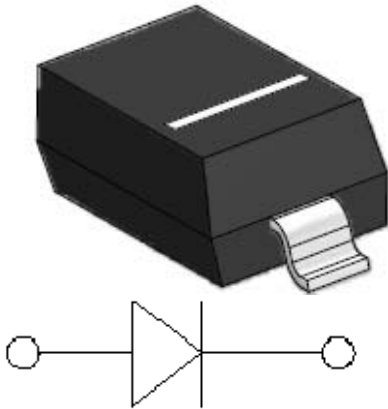


Small Signal Schottky Diode



Features

- V_R 20V
- I_{FAV} 0.5A

Mechanical Data

- **Package:** SOD-123
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** B2

■Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		20
Non-Repetitive Peak Forward Surge Current	I_{FSM}	A	$t_p=8.3\text{ms}$	5.5
Average forward current	I_{FAV}	A		0.5
Power dissipation	P_D	mW		350
Thermal Resistance from junction to ambient	$R_{\theta JA}$	$^\circ\text{C/W}$		285
Junction temperature	T_j	$^\circ\text{C}$		125
Storage temperature range	T_{stg}	$^\circ\text{C}$		-55 to +150

■Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Maximum Forward voltage	V_F	V	$I_F=0.1\text{A}$	0.33
		V	$I_F=0.5\text{A}$	0.39
Maximum Reverse current	I_R	μA	$V_R=10\text{V}$	75
		μA	$V_R=20\text{V}$	250
Minimum Breakdown voltage	V_R	V	$I_R=0.25\text{mA}$	20

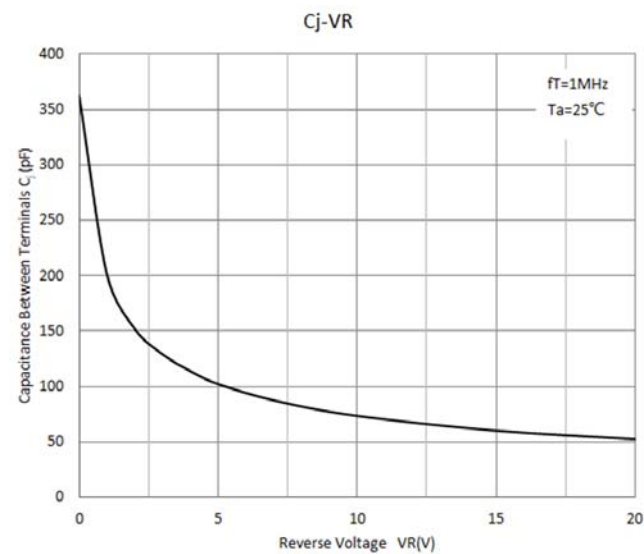
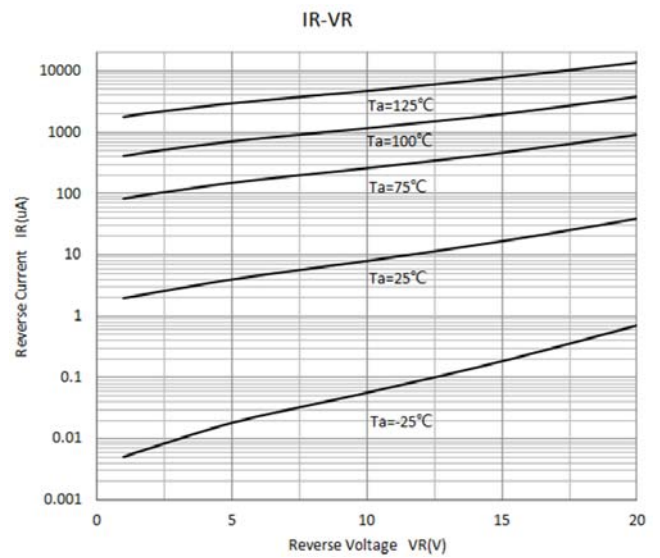
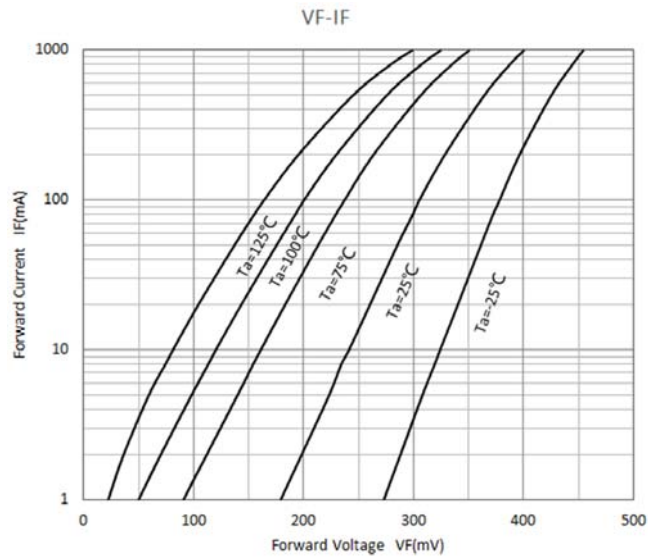


MBR0520L

■ Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR0520L	F2	Approximate 0.009	3000	30000	120000	7" reel

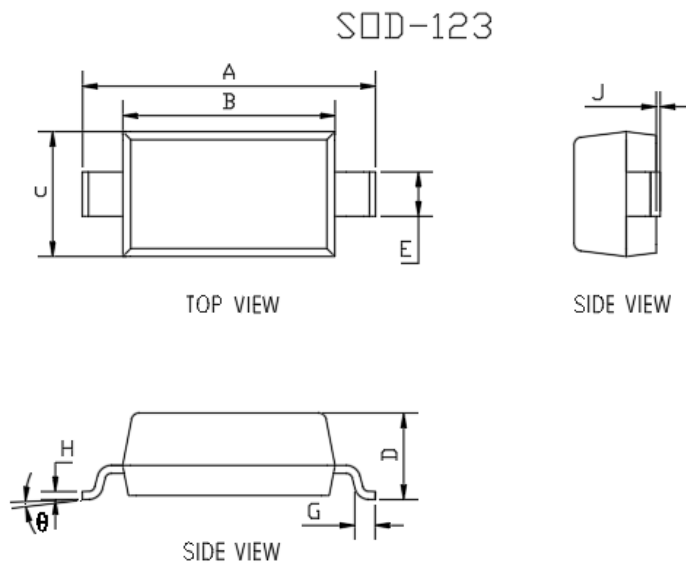
■ Characteristics (Typical)





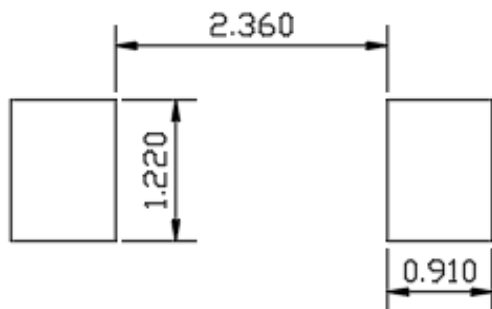
MBR0520L

■ Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.140	0.152	3.550	3.850
B	0.100	0.112	2.550	2.850
C	0.055	0.071	1.400	1.800
D	0.037	0.053	0.950	1.350
E	0.020	0.028	0.510	0.710
G	0.006	0.018	0.150	0.450
H	0.003	0.010	0.080	0.250
J	0.000	0.006	0.000	0.150
θ	0	8°	0	8°

■ Soldering Footprint



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT



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